

CONVAIR
A Division of General Dynamics Corporation
(San Diego)

DESIGN INFORMATION BULLETIN

NO. 22-23-005

REPORT NO. ZM-22-005

DATE: 12 July 1960

MODEL 22- AIRPLANE

PAGE: 1 of 4

SKYDROL 500 CONTAMINATION AREAS

1. This D.I.B. defines the zone where components and airframe areas are subject to hydraulic system leakages or (servicing) spillage or vapors.
2. Zone identification shall be as shown on Figure 1 ("Maintenance Zones") and shall be considered as contamination areas in accordance with Table 1 designation.
3. Each design group shall be responsible for the selection of Skydrol resistant materials and processes suitable for parts and assemblies located in the Skydrol areas as indicated in Table 1.
4. Compatability information on materials and processes for use in Skydrol areas may be obtained from Value Engineering personnel concerned.

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SKYDROL 500 CONTAMINATION AREAS

TABLE I

CONTAMINATED AREA DESIGNATION

ZONE	EXTERIOR	INTERIOR	ZONE	EXTERIOR	INTERIOR	ZONE	EXTERIOR	INTERIOR
1	PS	—	35	PS	—	72 O	S*	S*
2	PS	S	36	PS	—	81	PS	S
3	PS	PS	37	PS(RS)	—	82	PS	S
4	PS	PS	38	PS(RS)	—	83	PS	S
5	PS	S	40	—	—	84	PS	S
6	PS	S	41	—	—	85	PS	S
7	S	S	42	—	—	86	PS	S
8	S	PS	43	PS	—	87	PS	S
10	—	PS	44	PS	—	88	PS	S
11	PS	—	45	—	—			
12	PS	—	46	—	—			
13	PS	S*	47	—	—			
14	S	—	50	PS	—			
15	S	S	51 O	PS	S			
16	S	—	52 O	PS	S			
17	S	—	53 O	PS	S			
20	—	—	54 O	PS	S			
21	—	—	55 O	PS	S			
22	—	—	56 O	PS	S			
23	—	—	57	PS	S			
24	PS	—	60 O	PS	S			
25	—	—	61 O	PS	S			
30	PS(RS)	—	62	S	—			
31	PS(RS)	—	63	S	—			
32	PS	—	64 O	PS	S			
33	PS	—	65 O	PS	S			
34	S	—	70	PS	S*			
			71	PS	—			

CODE:

PS = Potential Skydrol 500

Contamination. Δ

S = Skydrol 500 Contamination.

(i.e. due to broken line.

or loose fittings.

RS = Rear Spar (Aft side only.)

— = No exposure to Skydrol.

*13, 70, 71, 72 = No contamination on 22-1, -2.

Δ Potential defined as areas susceptible to Skydrol contamination such as areas 11 & 12 being wetted with Skydrol because of leakage in Nose Wheel Well when airborne.

O Refer to Page 3 for specific limitations set for the indicated zones.

NO: 22-23.005

DATE: 12 July

PAGE: 2 of 4

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DESIGN INFORMATION BULLETIN

REPORT NO. ZM-24-005

MODEL 22 AIRPLANE

NO: 22-213-005 U.

DATE: 12 July 1960

PAGE: 3 of 4

SKYDROL 500 CONTAMINATION AREAS

Specific limitations for Skydrol contamination in the following zones.

Zones 51 through 56 - interiors all limited to "S Classification" contamination as follows:

Zone 52 & 53 - limited to aileron nose section and forward side of front spar.

Zone 51 - outboard - lefthand flap and spoiler

Zone 53 - inboard - lefthand flap and spoiler

Zone 54 - inboard - righthand flap and spoiler

Zone 56 - outboard-righthand flap and spoiler

Limited to exposed areas of nose section and forward side of front spar of each flap.

Zone 60 - outboard - lefthand horizontal stabilizer

Zone 65 - outboard - righthand horizontal stabilizer

Limited to inboard end face.

Zone 61 - lefthand - elevator

Zone 64 - righthand - elevator

Limited to inboard end surfaces, forward side spar and exposed areas nose section.

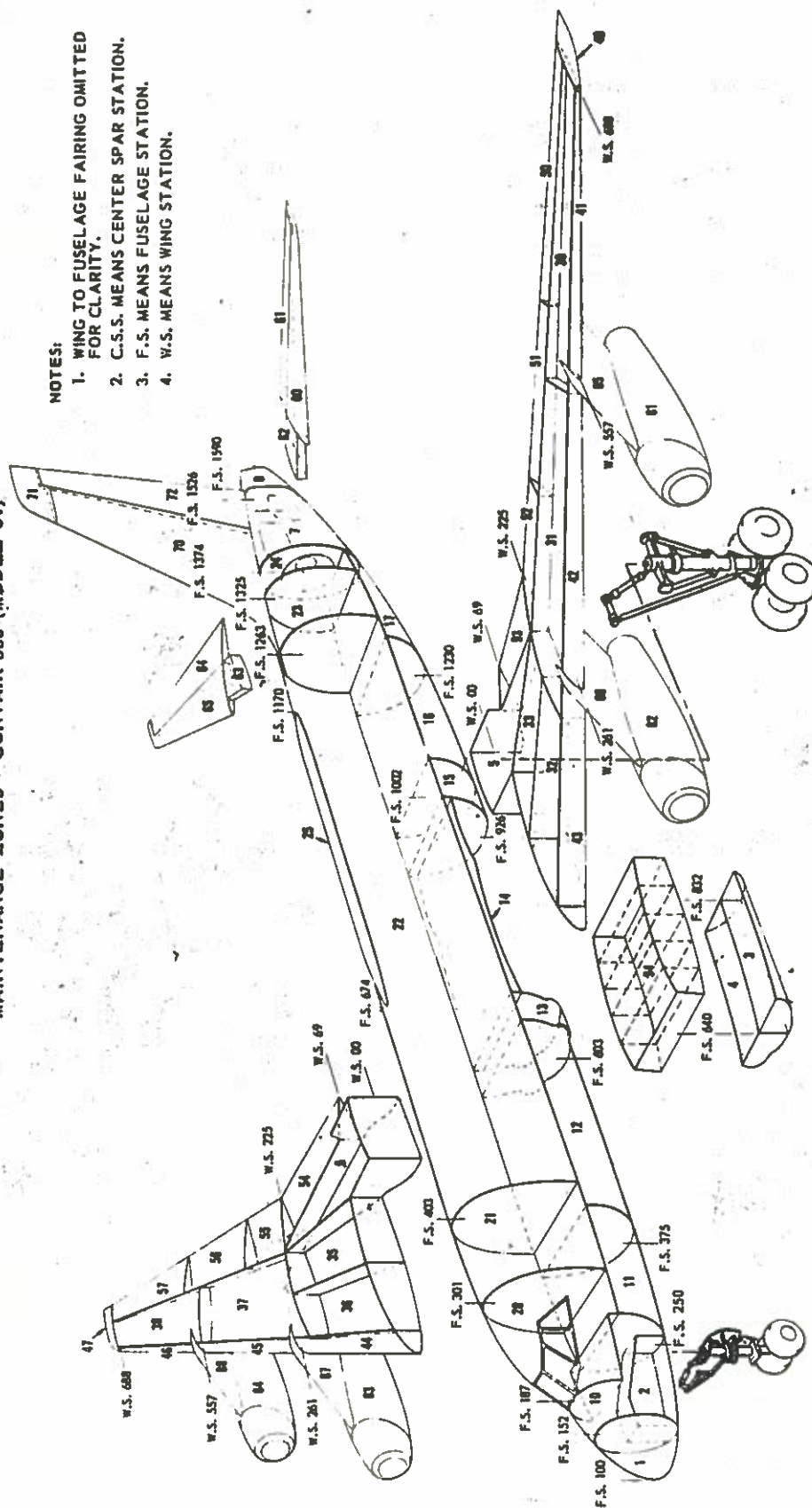
Zone 72 - rudder

Limited to bottom end surface, exposed areas of nose section, and forward side of spar.

MAINTENANCE ZONES - CONVAIR 880 (MODEL 31)

NOTES:

1. WING TO FUSELAGE FAIRING OMITTED FOR CLARITY.
2. C.S.S. MEANS CENTER SPAR STATION.
3. F.S. MEANS FUSELAGE STATION.
4. W.S. MEANS WING STATION.



- UN-PRESSURED FUSELAGE AREAS**
1. RADOME
 2. NOSE WHEEL WELL & GEAR
 3. AIR-COND (LH)
 4. AIR-COND (RH)
 5. WHEEL WELL - LH & GEAR
 6. WHEEL WELL - RH & GEAR
 7. TAIL SECTION - FUSELAGE & TAIL CONE
- BELOW FLOOR COMPT'S**
10. NOSE SECTION
 11. ELECTRONIC - ELECTRICAL
 12. BAGGAGE - FWD
 13. WATER
 14. OVER WING
 15. HYDRAULICS
 16. BAGGAGE - REAR
 17. AFT FUSELAGE - BELOW FLOOR
- ABOVE FLOOR COMPT.**
20. COCKPIT
 21. ENTRANCE - SERVICE - FWD
 22. FUSELAGE - PASSENGER
 23. ENTRANCE - SERVICE - REAR
 24. LAVATORY & PRESS DOME
 25. FAIRING - ANTENNA - TOP
- FUEL TANKS**
30. WING - NO.1 AUX FUEL TANK - LH
 31. WING - NO.1 MAIN FUEL TANK - LH
 32. WING - NO.2 AUX FUEL TANK - LH
 33. WING - NO.2 MAIN FUEL TANK - LH
 34. WING - FUEL TANK - CENTER SECTION
 35. WING - NO.3 MAIN FUEL TANK - RH
 36. WING - NO.3 AUX FUEL TANK - RH
 37. WING - NO.4 MAIN FUEL TANK - RH
 38. WING - NO.4 AUX FUEL TANK - RH
- WINGS - L.E. & TIPS**
40. WING TIP - LH
 41. LEAD EDGE - OUTBD - LH
 42. LEAD EDGE - CENTER - LH
 43. LEAD EDGE - INBD - LH
 44. LEAD EDGE - CENTER - RH
 45. LEAD EDGE - OUTBD - RH
 46. LEAD EDGE - CENTER - RH
 47. WING TIP - RH
- WINGS - TRAILING EDGE & REAR SPAR**
50. WING - TRAILING EDGE - LH
 51. WING - FLAP & SPOILER - OUTBD - LH
 52. WING - AILERON & BAL BD - LH
 53. WING - FLAP & SPOILER - INBD - LH
 54. WING - FLAP & SPOILER - INBD - RH
 55. WING - AILERON & BAL BD - RH
 56. WING - FLAP & SPOILER - OUTBD - RH
 57. WING - TRAILING EDGE - RH
- PODS & PYLONS**
81. ENGINE #1 POD
 82. ENGINE #2 POD
 83. ENGINE #3 POD
 84. ENGINE #4 POD
 85. ENGINE #1 PYLON
 86. ENGINE #2 PYLON
 87. ENGINE #3 PYLON
 88. ENGINE #4 PYLON
- HORIZONTAL STABILIZER**
60. HORIZ STAB - OUTBD - LH
 61. ELEV. TABS & BAL BD'S - LH
 62. HORIZ STAB - INBD - LH
 63. HORIZ STAB - INBD - RH
 64. ELEV. TABS & BAL BD'S - RH
 65. HORIZ STAB - OUTBD - RH
- VERTICAL STABILIZER**
70. VERT STAB
 71. VERT STAB - INSUL STRIP & CAP
 72. RUDDER, BAL BD'S, & TABS

FIGURE I